MONTHLY BULLETIN

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

FORMERLY

SYRIAN PROTESTANT COLLEGE

BEIRUT, SYRIA

LAT. 33° 54′ 22″ N.

LONG. E. FROM GREENWICH 35° 28′ 10″

OCTOBER, 1932

J. A. BROWN, DIRECTOR

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AGRICULTURE BUREAU

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# OCTOBER 1932
# METEOROLOGICAL REGISTER

| Date | Barometer reduced to o°C Sea level and 45° Latitude 700 mm+... | | | | Thermometer Cent. | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | Max. | Min | 8:30 | 14:30 | 20:30 | Mean |
| 1 | 59.0 | 58.5 | 58.2 | 58.6 | 30.2 | 24.3 | 27.8 | 29.4 | 25.3 | 27.5 |
| 2 | 9.1 | 8.1 | 8.5 | 8.6 | 29.7 | 24.2 | 26.6 | 27.8 | 24.2 | 26.2 |
| 3 | 8.1 | 8.1 | 7.9 | 8.0 | 29.0 | 21.2 | 26.4 | 27.5 | 23.6 | 25.8 |
| 4 | 8.6 | 8.9 | 9.3 | 8.9 | 28.1 | 21.3 | 25.3 | 23.9 | 22.7 | 24.0 |
| 5 | 60.5 | 60.6 | 61.4 | 60.8 | 27.9 | 20.4 | 23.6 | 27.3 | 22.3 | 24.4 |
| 6 | 65.0 | 63.8 | 64.2 | 64.3 | 29.1 | 21.8 | 26.1 | 28.2 | 24.7 | 26.3 |
| 7 | 4.2 | 2.9 | 3.9 | 3.7 | 29.4 | 22.1 | 26.4 | 28.8 | 24.3 | 26.5 |
| 8 | 2.2 | 0.7 | 1.0 | 1.3 | 29.0 | 22.2 | 26.3 | 28.0 | 23.8 | 26.0 |
| 9 | 0.2 | 59.5 | 59.9 | 59.9 | 29.0 | 21.8 | 25.6 | 28.6 | 23.6 | 25.9 |
| 10 | 0.9 | 60.4 | 60.8 | 60.7 | 29.0 | 21.5 | 24.8 | 28.4 | 23.3 | 25.5 |
| 11 | 61.7 | 61.0 | 61.0 | 61.2 | 29.2 | 20.9 | 24.9 | 28.7 | 23.7 | 25.8 |
| 12 | 1.7 | 0.8 | 1.3 | 1.3 | 29.3 | 21.9 | 25.9 | 27.7 | 23.8 | 25.8 |
| 13 | 1.3 | 0.1 | 59.8 | 0.4 | 29.3 | 22.3 | 26.0 | 26.9 | 24.2 | 25.7 |
| 14 | 59.7 | 58.9 | 9.2 | 59.3 | 29.1 | 22.1 | 25.6 | 27.3 | 23.8 | 25.6 |
| 15 | 9.5 | 8.7 | 9.5 | 9.2 | 27.9 | 21.1 | 24.8 | 27.6 | 24.7 | 25.7 |
| 16 | 59.9 | 59.4 | 59.7 | 59.7 | 29.6 | 22.3 | 27.2 | 28.9 | 24.7 | 26.9 |
| 17 | 9.5 | 9.0 | 9.7 | 9.5 | 28.8 | 23.0 | 25.7 | 28.6 | 23.7 | 26.0 |
| 18 | 60.1 | 9.3 | 9.4 | 9.7 | 29.5 | 21.6 | 25.2 | 23.9 | 23.9 | 26.0 |
| 19 | 8.6 | 7.5 | 7.6 | 7.9 | 29.2 | 22.2 | 26.5 | 28.8 | 22.8 | 26.0 |
| 20 | 7.6 | 5.8 | 8.2 | 7.2 | 28.1 | 20.5 | 25.5 | 26.9 | 23.9 | 25.4 |
| 21 | 57.2 | 57.7 | 59.0 | 57.9 | 30.8 | 23.6 | 28.3 | 29.9 | 24.8 | 27.7 |
| 22 | 61.7 | 60.9 | 62.8 | 61.8 | 30.6 | 23.6 | 27.8 | 29.2 | 26.1 | 27.7 |
| 23 | 64.4 | 3.2 | 2.6 | 5.5 | 28.6 | 22.9 | 26.1 | 27.8 | 23.6 | 25.8 |
| 24 | 3.2 | 3.0 | 2.3 | 2.8 | 27.4 | 22.1 | 24.9 | 27.2 | 23.8 | 25.3 |
| 25 | 0.4 | 58.7 | 0.0 | 59.7 | 29.4 | 22.2 | 25.9 | 28.7 | 24.8 | 26.5 |
| 26 | 61.9 | 60.8 | 62.0 | 61.6 | 29.8 | 23.2 | 25.8 | 28.9 | 24.9 | 26.5 |
| 27 | 2.3 | 1.2 | 1.6 | 1.7 | 27.2 | 21.8 | 25.5 | 26.6 | 22.4 | 24.8 |
| 28 | 59.1 | 56.9 | 57.6 | 57.9 | 28.0 | 21.6 | 24.9 | 27.2 | 25.5 | 25.9 |
| 29 | 60.7 | 60.5 | 61.5 | 60.9 | 29.6 | 21.4 | 28.3 | 28.6 | 23.3 | 26.9 |
| 30 | 2.6 | 1.1 | 0.0 | 1.2 | 27.8 | 22.2 | 25.9 | 26.7 | 23.2 | 25.3 |
| 31 | 59.6 | 59.2 | 59.3 | 59.4 | 27.9 | 22 2 | 25.0 | 26.9 | 23.0 | 25.0 |
| | 760.68 | 759.84 | 760.30 | 760.27 | 28.92 | 22.10 | 25.97 | 27.93 | 23.94 | 25.96 |

Barometer, Range for month 756.9—765.0 m.m.
„ 50-yr. average for month 761.473 m.m.
Thermometer, Range for month 20.4°—30.8° C.
„ 50-yr. average for month 24.48 C.
Rain, Total for month 2.54 m.m.
„ , 50-yr average for month 52.58 m.m.
„ , total Sept. 1st to end of month 2.54 m.m.
„ , 50-yr. average, Sept. 1st to end of month 59.95 m.m

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## METEOROLOGICAL REGISTER

| Date | Wet Bulb Cent. | | | Elasticity of Vapor m.m. | | | | Relative Moisture per cent. | | | | Sun hrs. | Rain m.m. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8.30 | 14.30 | 20:30 | 8:30 | 14.30 | 20:30 | Mean | 8.30 | 14:30 | 20:30 | Mean | | |
| 1 | 24.9 | 25.6 | 23.6 | 21.0 | 21.1 | 20.2 | 20.8 | 76 | 68 | 84 | 76 | 9.2 | |
| 2 | 22.7 | 22.4 | 24.4 | 17.4 | 16.2 | 22.0 | 18.5 | 67 | 58 | 97 | 74 | 8.0 | |
| 3 | 20.7 | 21.1 | 21.1 | 14.1 | 15.8 | 16.6 | 15.5 | 55 | 58 | 77 | 63 | 6.8 | |
| 4 | 19.3 | 25.4 | 19.3 | 12.8 | 14.4 | 14.2 | 13.8 | 53 | 65 | 70 | 63 | 6.8 | |
| 5 | 18.8 | 21.2 | 19.7 | 13.0 | 14.5 | 15.0 | 14.2 | 61 | 54 | 75 | 63 | 9.2 | |
| 6 | 22.2 | 22.8 | 22.6 | 16.9 | 16.4 | 18.7 | 17.3 | 67 | 58 | 81 | 69 | 10.0 | |
| 7 | 23.3 | 24.7 | 22.8 | 18.8 | 19.5 | 19.4 | 19.2 | 73 | 64 | 86 | 74 | 8.6 | |
| 8 | 23.4 | 24.3 | 22.8 | 19.1 | 19.4 | 19.8 | 19.4 | 75 | 69 | 90 | 78 | 9.7 | |
| 9 | 23.3 | 24.6 | 22.3 | 19.2 | 19.5 | 18.9 | 19.2 | 79 | 67 | 88 | 78 | 9.0 | |
| 10 | 22.7 | 24.4 | 22.6 | 18.8 | 19.4 | 19.7 | 19.3 | 81 | 68 | 92 | 80 | 10.0 | |
| 11 | 23.6 | 24.4 | 21.8 | 20.4 | 19.2 | 17.8 | 19.1 | 86 | 66 | 81 | 78 | 9.8 | |
| 12 | 22.5 | 23.8 | 22.4 | 17.6 | 18.7 | 19.0 | 18.4 | 71 | 67 | 87 | 75 | 10.0 | |
| 13 | 22.4 | 23.5 | 23.2 | 17.0 | 18.7 | 20.2 | 18.6 | 69 | 71 | 90 | 77 | 9.9 | |
| 14 | 20.7 | 23.2 | 23.1 | 14.7 | 17.8 | 20.3 | 17.6 | 60 | 76 | 92 | 73 | 9.7 | |
| 15 | 22.3 | 23.2 | 22.3 | 17.9 | 17.6 | 18.2 | 17.9 | 77 | 65 | 78 | 73 | 9.5 | |
| 16 | 23.4 | 25.6 | 22.7 | 18.4 | 21.4 | 18.8 | 19.5 | 69 | 72 | 81 | 74 | 8.7 | |
| 17 | 23.2 | 24.9 | 22.8 | 19.1 | 20.2 | 19.9 | 19.7 | 77 | 69 | 91 | 79 | 9.5 | |
| 18 | 22.1 | 24.3 | 21.7 | 17.3 | 18.8 | 17.5 | 17.9 | 73 | 63 | 79 | 72 | 10.0 | |
| 19 | 20.3 | 22.7 | 18.2 | 13.6 | 16.0 | 12.5 | 14.0 | 53 | 54 | 61 | 56 | 10.0 | |
| 20 | 22.1 | 22.0 | 21.9 | 17.0 | 16.0 | 8.0 | 17.0 | 70 | 59 | 82 | 70 | 9.4 | |
| 21 | 24.1 | 24.0 | 18.8 | 18.7 | 17.5 | 12.4 | 16.2 | 65 | 56 | 54 | 58 | 9.8 | |
| 22 | 24.2 | 22.1 | 23.4 | 19.5 | 14.8 | 19.2 | 17.8 | 70 | 49 | 76 | 65 | 6.3 | 1.65 |
| 23 | 22.8 | 24.4 | 22.7 | 17.9 | 19.9 | 19.7 | 19.2 | 71 | 72 | 91 | 78 | 9.9 | |
| 24 | 22.4 | 25.1 | 21.8 | 18.2 | 21.9 | 17.9 | 19.3 | 78 | 84 | 82 | 81 | 10.0 | |
| 25 | 22.2 | 23.9 | 19.3 | 17.1 | 18.3 | 13.0 | 16.1 | 69 | 62 | 57 | 63 | 9.9 | |
| 26 | 20.0 | 22.1 | 22.1 | 13.5 | 14.9 | 17.5 | 15.3 | 54 | 50 | 74 | 59 | 8.0 | |
| 27 | 20.3 | 20.6 | 19.3 | 14.1 | 13.9 | 14.4 | 14.1 | 58 | 53 | 72 | 61 | 8.0 | |
| 28 | 18.9 | 20.3 | 18.3 | 12.5 | 13.3 | 11.4 | 12.4 | 53 | 49 | 47 | 50 | 2.0 | |
| 29 | 18.6 | 22.0 | 19.8 | 10.4 | 15.0 | 14.7 | 13.4 | 35 | 52 | 69 | 52 | 7.0 | 0.89 |
| 30 | 22.1 | 23.4 | 21.2 | 16.8 | 18.6 | 17.0 | 17 5 | 67 | 71 | 81 | 73 | 9.4 | |
| 31 | 19.6 | 22.6 | 20.8 | 13.3 | 17 0 | 16.5 | 15.6 | 57 | 64 | 79 | 67 | 9.3 | |
| | 21.90 | 23.40 | 21.57 | 16.64 | 17.60 | 17.43 | 17.22 | 66.7 | 62.3 | 79.4 | 69.4 | | 0.08 |

Height of Barometer above sea level: 33.7 meters.
" " Thermometers above ground:
Dry and wet 1.55 m.: Max. 1.75 m.: Min. 1.70 m
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of readings minus 2 hours equals G. C. T.
50-year averages are for period, 1875-1924

# OCTOBER 1932

## METEOROLOGICAL REGISTER

| Date | Clouds. Clear—0 Overcast—10 | | | | Direction and force of Wind 0—10 | | | Wind per day | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | Km | | |
| 1 | 5stcu | 1cu | 7cu | 4.3 | 2sw | 0 | 0 | 263.8 | slight | |
| 2 | 2cu | 8stcu | 0 | 3.3 | 1nw | 1nw | 0 | 230.3 | „ | |
| 3 | 0 | 8cicu | 0 | 2.7 | 1nw | 1nw | 0 | 199.5 | „ | lightning |
| 4 | 2ci | 7cicu | 2cu | 3.7 | 1w | 1nw | 0 | 212.4 | light | th & lightning |
| 5 | 2stcu | 1cu | 1cu | 1.3 | 3w | 1nw | 0 | 419.9 | „ | traces of rain |
| 6 | 2cu | 0 | 7cu | 3.0 | 0 | 1nw | 1nw | 53.7 | mod. | |
| 7 | 1cu | 0 | 4cu | 1.7 | 1ne | 1nw | 0 | 29.5 | „ | haze at noon |
| 8 | 3cu | 1cu | 7cu | 3.7 | 1ne | 1ne | 0 | 36.4 | slight | |
| 9 | 1cu | 1cu | 0 | 0 7 | 1sw | 0 | 0 | 53.0 | calm | traces of rain |
| 10 | 1st | 0 | 0 | 0.3 | 0 | 1n | 0 | 48.3 | „ | heavy dew at ni. |
| 11 | 1cu | 0 | 0 | 0.3 | 1sw | 1ne | 0 | 31.7 | light | dew at night |
| 12 | 0 | 0 | 0 | 0.0 | 0 | 1ne | 0 | 11.9 | slight | „ „ „ |
| 13 | 0 | 1stcu | 0 | 0.3 | 0 | 1ne | 0 | 123.3 | mod. | |
| 14 | 0 | 0 | 4stcu | 1.3 | 1ne | 1ne | 0 | 56.8 | slight | heavy dew at ni. |
| 15 | 2stcu | 3cu | 3cu | 2.7 | 0 | 0 | 1nw | 41.5 | light | |
| 16 | 3stcu | 2cu | 0 | 1.7 | 0 | 0 | 0 | 91.4 | mod. | |
| 17 | 0 | 0 | 0 | 0.0 | 1sw | 1w | 0 | 210.7 | „ | haze in a.m. |
| 18 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 30.9 | light | „ „ „ dew |
| 19 | 0 | 0 | 0 | 0.0 | 1w | 1nw | 1nw | 156.2 | „ | |
| 20 | 0 | 0st | 0 | 5.3 | 0 | 1ne | 0 | 47.8 | mod. | |
| 21 | 1st | 2st | 0 | 1.0 | 0 | 0 | 0 | 69.4 | light | haze in a.m. |
| 22 | 5stcu | 3stcu | 2cu | 3.3 | 0 | 0 | 3ne | 235.9 | „ | „ „ „ th. st. |
| 23 | 0 | 0 | 0 | 0.0 | 0 | 0 | 0 | 170.0 | „ | |
| 24 | 5cu | 1cu | 1cu | 2.3 | 0 | 1n | 0 | 64.7 | „ | |
| 25 | 2cu | 8st | 0 | 3.3 | 1ne | 0 | 0 | 95.2 | slight | |
| 26 | 7cu | 2stcu | 5cu | 4.7 | 0 | 1nw | 1w | 472.1 | mod. | light. in the nor. |
| 27 | 9st | 3cu | 2cu | 4.7 | 0 | 1nw | 0 | 267.5 | „ | |
| 28 | 10cu | 10cu | 10ni | 10.0 | 3ne | 0 | 3ne | 180.2 | stormy | traces of rain |
| 29 | 8stcu | 3cu | 1cu | 4.0 | 1ne | 0 | 0 | 720.5 | stormy | „ „ „ |
| 30 | 1cu | 2cu | 0 | 1.0 | 0 | 0 | 0 | 178.5 | mod. | haze at noon |
| 31 | 1cu | 2cu | 0 | 1.0 | 0 20 | 0 18 | 0 10 | 205.4 | slight | „ in a.m. |
| | | | | 2.24 | 0.6 | 0.6 | 0.3 | 159.85 | | |

### Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm |
|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 0 | 6 | 0 | 0 | 0 | 4 | 3 | 2 | 16 |
| 14:30 | 2 | 6 | 0 | 0 | 0 | 0 | 1 | 9 | 13 |
| 20.30 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 25 |
| Totals | 2 | 14 | 0 | 0 | 0 | 4 | 5 | 14 | 54 |

Number of days with rain 2, fog 0, thunderstorm 2, gales 0

50-yr average number of days with rain during month 3.5